

ABSTRACT

The present invention provides a device for generating a loop or a file used in an embroidery frame and the device comprises a fore-back driving part including a fore-back driving motor, a first gear driven with said motor, a second gear driven by a means coupling with said first gear, a third gear driven by a co-axis of rotation with said second gear, a first stop bar to switch said motor positioned at the lower part of said co-axis and cam-shaped stoppers placed within the area covered by the rotation of said first stop bar; a left-right driving part including a left-right rotating motor, a fourth gear driven with said motor, and a shaft having a fifth gear associated with said forth gear at the one end and a worm gear at the other; and a lead arm part connect to said shaft and including a lead arm to generate a loop, a lead arm body to joint said lead arm, lever stoppers to suppress the rotation of the motor and a second stop bars placed with the area covered by the rotation of the lead arm wherein said each second stop bar is formed at the opposed position against each other.